

Serial No. 09/998,975

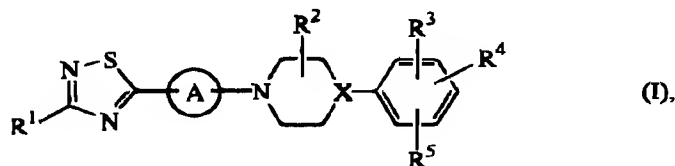
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Note: Applicant uses:

- ~~**Bold cross-out text**~~ to indicate deletions;
- **Bold underline text** to indicate additions.

Amendments to the Claims:

1. (Previously Amended) A compound of formula (I),



the *N*-oxide forms, the pharmaceutically acceptable acid addition salts and stereochemically isomeric forms thereof, wherein

X is N;

R¹ is hydrogen, C₁₋₆alkyl, C₁₋₆alkyloxy, C₁₋₆alkylthio, amino, mono- or di(C₁₋₆alkyl)amino, Ar¹, Ar¹NH-, C₃₋₆cycloalkyl, hydroxymethyl or benzyloxymethyl;

R² is hydrogen, C₁₋₆alkyl, amino, aminocarbonyl, mono- or di(C₁₋₆alkyl)amino, C₁₋₆alkyloxycarbonyl, C₁₋₆alkylcarbonylamino, hydroxy or C₁₋₆alkyloxy;


R³, R⁴ and R⁵ are each independently selected from hydrogen, halo, C₁₋₆alkyl, C₁₋₆alkyloxy, trifluoromethyl, nitro, amino, cyano, azido, C₁₋₆alkyloxyC₁₋₆alkyl, C₁₋₆alkylthio, C₁₋₆alkyloxycarbonyl or Het¹;

—(A)— is Ar² or Het²;

Ar¹ is phenyl; phenyl substituted with 1, 2 or 3 substituents each independently selected from halo, C₁₋₆alkyl, C₁₋₆alkyloxy, trihalomethyl, amino or nitro;

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Ar² is  substituted with 1, 2 or 3 substituents each independently selected from halo, C₁₋₆alkyl, C₁₋₆alkyloxy, trihalomethyl, amino or nitro;

Het¹ is a monocyclic heterocycle selected from oxazolyl, isoxazolyl, oxadiazolyl, thiazolyl, isothiazolyl, thiadiazolyl or oxazolinyl; and each monocyclic heterocycle may optionally be substituted on a carbon atom with C₁₋₄alkyl; and

Het² is a monocyclic heterocycle selected from thiadiazolyl, pyridinyl, pyrimidinyl or pyrazinyl; and each monocyclic heterocycle may optionally be substituted on a carbon atom with 1 or 2 substituents each independently selected from halo, C₁₋₄alkyl, C₁₋₄alkyloxy, nitro or trifluoromethyl.

2. (Previously Amended) A compound according to claim 1 wherein R¹ is hydrogen, C₁₋₆alkyl, amino or di(C₁₋₆alkyl)amino; R² is hydrogen; R³, R⁴ and R⁵ are each independently selected from hydrogen, halo, C₁₋₆alkyl, C₁₋₆alkyloxy, trifluoromethyl, nitro or C₁₋₆alkyloxycarbonyl.

3. (Previously Amended) A compound according to claim 1 wherein R¹ is hydrogen, C₁₋₄alkyl or di(C₁₋₄alkyl)amino; R² is hydrogen; R³, R⁴ and R⁵ are each independently selected from hydrogen, halo, C₁₋₄alkyl, C₁₋₄alkyloxy or trifluoromethyl; and the bivalent radical  is Ar² or Het² wherein Ar² is phenyl and Het² is thiadiazolyl, pyridinyl, pyrimidinyl or pyrazinyl.

4. (Previously Amended) A compound according to claim 1 wherein R¹ is methyl, R² is hydrogen, R³ and R⁴ are hydrogen and R⁵ is trifluoromethyl.

5. (Previously Amended) A compound according to claim 1 wherein the compound is

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1-[4-(3-methyl-1,2,4-thiadiazol-5-yl)phenyl]-4-[3-(trifluoromethyl)phenyl]-piperazine;

or

1-[5-(3-methyl-1,2,4-thiadiazol-5-yl)-2-pyridinyl]-4-[3-(trifluoromethyl)phenyl]-piperazine; a

stereoisomeric form, a pharmaceutically acceptable acid addition salt, or an N-oxide thereof.

6. (Previously Amended) A composition comprising a pharmaceutically acceptable carrier, and as active ingredient a therapeutically effective amount of a compound as claimed in claim 1.

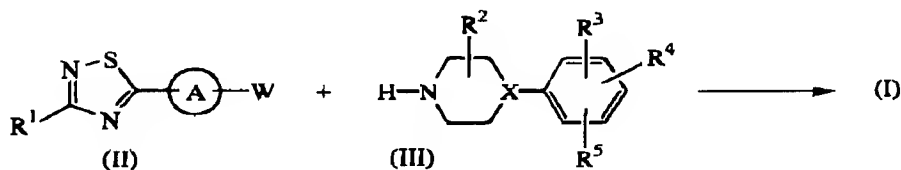
7. (Previously Cancelled).

8. (Previously Cancelled).

9. (Previously Cancelled).

10. (Currently Amended) A process of preparing a compound as claimed in claim 1, wherein

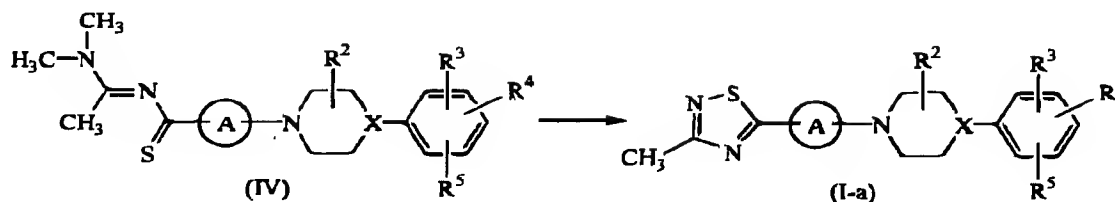
a) an intermediate of formula (II) is reacted with an intermediate of formula (III) in a reaction-inert solvent and, optionally in the presence of a suitable base;



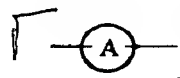
b) an intermediate of formula (IV) is treated with hydroxylamino-O-sulfonic acid in a reaction-inert solvent, in the presence of a suitable base, thereby yielding compounds of formula (I-a), defined as compounds of formula (I) wherein R¹ is methyl;

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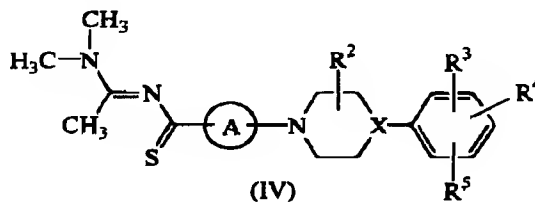



wherein in the above reaction schemes the radicals X, R¹, R², R³, R⁴, R⁵ and

T, 0203  are as defined in claim 1, and W is an appropriate leaving group;

- c) ~~or, a compound of formula (I) is converted into another compound of formula (I)~~
~~by art-known group transformation reactions;~~ or if desired, a compound of
 formula (I) is converted into a pharmaceutically acceptable acid addition salt thereof
 or conversely, an acid addition salt of a compound of formula (I) is converted into a
 free base form thereof with alkali; and, if desired, preparing stereochemically
 isomeric forms thereof.

11. A compound of formula (IV),



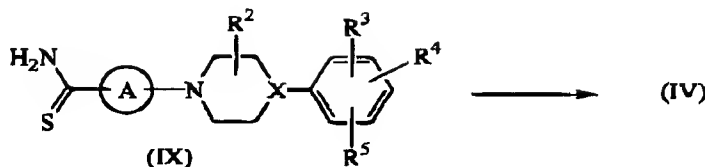
an acid addition salt, a *N*-oxide form or a stereochemically isomeric form thereof,
 wherein X, R², R³, R⁴, R⁵ and the bivalent radical  are as defined in claim 1.

D29 12⁹ (Currently Amended) A process of preparing a compound of formula (IV) as claimed
 in claim 1, wherein

- a) an intermediate of formula (IX) is treated with *N,N*-dimethylacetamide dimethyl
 acetal in a reaction-inert solvent, thereby yielding a compound of formula (IV);

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- b) ~~or, a compound of formula (IV) is converted into another compound of formula (IV) by art known group transformation reactions;~~ or if desired, a compound of formula (IV) is converted into an acid addition salt thereof, or conversely, an acid addition salt of a compound of formula (IV) is converted into a free base form thereof with alkali; and, if desired, preparing stereochemically isomeric forms thereof.

13. A method of treating angiogenesis dependent disorders comprising administering to a host in need thereof an effective amount of a compound of claim 1.
14. A method of treating angiogenesis dependent disorders comprising administering to a host in need thereof an effective amount of a compound of claim 2.
15. A method of treating angiogenesis dependent disorders comprising administering to a host in need thereof an effective amount of a compound of claim 3.
16. A method of treating angiogenesis dependent disorders comprising administering to a host in need thereof an effective amount of a compound of claim 4.
17. A method of treating angiogenesis dependent disorders comprising administering to a host in need thereof an effective amount of a compound of claim 5.
18. (Previously Amended) A compound according to claim 2 wherein R¹ is hydrogen, C₁₋₄alkyl or di(C₁₋₄alkyl)amino; R² is hydrogen; R³, R⁴ and R⁵ are each independently selected from hydrogen, halo, C₁₋₄alkyl, C₁₋₄alkyloxy or trifluoromethyl; and the bivalent

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radical $\text{---} \text{A} \text{---}$ is Ar^2 or Het^2 wherein Ar^2 is phenyl and Het^2 is thiadiazolyl, pyridinyl, pyrimidinyl or pyrazinyl.

19. (Previously Amended) A compound according to claim 2 wherein R^1 is methyl, R^2 is hydrogen, R^3 and R^4 are hydrogen and R^5 is trifluoromethyl.

20. (Previously Amended) A compound according to claim 3 wherein R^1 is methyl, R^2 is hydrogen, R^3 and R^4 are hydrogen and R^5 is trifluoromethyl.

21-37. (Previously Cancelled).

38. (Previously Amended) A method of treating angiogenesis dependent disorders comprising administering to a host in need thereof an effective amount of

1-[4-(3-methyl-1,2,4-thiadiazol-5-yl)phenyl]-4-[3-(trifluoromethyl)phenyl]-piperazine;

or

1-[5-(3-methyl-1,2,4-thiadiazol-5-yl)-2-pyridinyl]-4-[3-(trifluoromethyl)phenyl]-piperazine; a stereoisomeric form, a pharmaceutically acceptable acid addition salt, or an N-oxide thereof.

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REMARKS

Claims 1-6,10-20 and 38 are pending in this application. The Examiner has allowed claims 1-6, 11, 13-20 and 38. Claims 10 and 12 are amended.

Support for the amendment to claims 10 and 12 is found in the Specification at pages 5-6.

Rejection Under 35 U.S.C. §112, second paragraph

Claims 10 and 12 are rejected under 35 U.S.C. §112, second paragraph, "as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention" (Office Action at page 2). Specifically, the Examiner asserts that it remains "unclear as to which compound gets converted into which" in step (c) (Office Action at 2).

Applicants have amended claims 10 and 12, without disclaimer or prejudice. Applicants respectfully submit that as amended claims 10 and 12 comport fully with the requirements of 35 U.S.C. §112, second paragraph, and accordingly, the rejection is rendered moot. Withdrawal of the rejection, and passage of the claims to allowance, is respectfully requested.

Conclusion

Applicants respectfully request that a timely Notice of Allowance of claims 1-6,10-20 and 38 be issued in this case. The Examiner is cordially invited to contact the undersigned with any questions regarding this application.

Respectfully submitted,

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